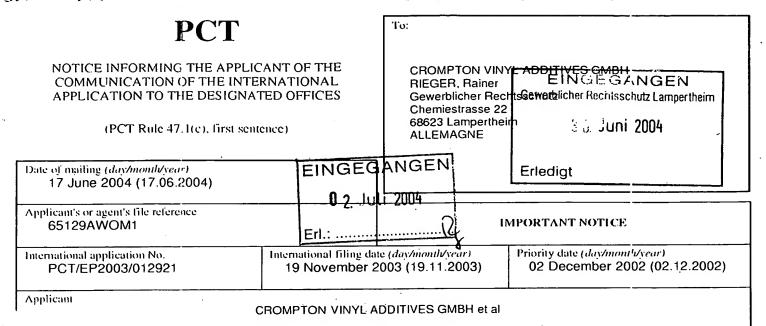
From the INTERNATIONAL BUREAU



 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

AU, AZ, BY, CH, CN, CO, DZ, EP, HU, JP, KG, KP, KR, MD, MK, MZ, RU, TM, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BW, BZ, CA, CR, CU, CZ, DE, DK, DM, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-his)).

- Enclosed with this notice is a copy of the international application as published by the International Bureau on 17 June 2004 (17.06.2004) under No. WO 2004/050754
- 4. TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be **30 MONTHS** from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of **19 months** from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*. October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at http://www.wipo.in/pct/en/index.html.

For filing a demand for international preliminary examination, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a *PCT* Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all *PCT* Contracting States are bound by Chapter II).

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20. Switzerland

Facsimile No.+41 22 740 14 35

Authorized officer

Ellen Moyse

Facsimile No.+41 22 338 89 75

| | IN ERNATIONAL SEAF | RCH REPORT | | |
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| A 01 4 00 | | | PCT/EP 0 | 3/12921 |
| IPC 7 | BIFICATION OF SUBJECT MATTER C08K5/3462 | | | |
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| | to International Patent Classification (IPC) or to both national | classification and IPC | | |
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| IPC 7 | COSK | ssilication symbols) | | |
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| Documenta | tion searched other than minimum occumentation to the exter | - tibatanah dan maratanah | | <u> </u> |
| | the externation to the externati | ii inai such documents are ii | ncluded in the fields | searched |
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| | ata base consulted during the international search (name of | data base and, where practi- | cal, search terms use | ed) |
| EPO-In | ternal, WPI Data, PAJ | | | |
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| C. DOCUM | ENTS CONSIDERED TO BE RELEVANT | | | |
| Category * | Citation of document, with indication, where appropriate, of | The relevant passages | · · · · · · · · · · · · · · · · · · · | Relevant to claim No. |
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| Special cate | gories of cited documents: | 474 4 4 4 4 | | |
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| E' earlier document but published on or after the international | | invention "X" document of partic | ular relevance: the c | laimed Invention |
| liling dat document | which may throw doubts on priority claim(s) or | cannot be conside | ered novel or cannot | be considered to cument is taken alone |
| which is citation (| cited to establish the publication date of another or other special reason (as specified) | "Y" document of partic | ular relevance; the ci | laimed invention |
| | t referring to an oral disclosure, use, exhibition or | document is comi | bined with one or mo | |
| odcument published prior to the international filing date but in the art. | | | | |
| | n the priority date claimed tual completion of the international search | '&' document member | | |
| or me ac | war completion of the international search . | Date of mailing of t | he inlemational sear | сь героп |
| 24 | May 2004 | 02/06/2 | 004 | |

Authorized officer

Kositza, M

Name and mailing address of the ISA

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Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

Interional Application No PCT/EP 03/12921

| | | | PCT/EP 03/12921 | | |
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| | etion) DOCUMENTS CONSIDERED TO BE RELEVANT | | | | |
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INTERNATIONAL SEARCH REPORT

Information on patent family members

Intentional Application No PCT/EP 03/12921

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
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PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

RIEGER, Rainer CROMPTON VINYL ADDITIVES GMBH Postfach 17 60 68623 Lampertheim GERMANY

[Stamp]

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Applicant's or agent's file reference
65129AWOM1

International application No.
PCT/EP 03/12921

Applicant
CROMPTON VINYL ADDITIVES GMBH et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
- 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the International preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The Applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purpose of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purpose of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/

Authorized officer:

9)

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0, Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Georgakopoulou, P

Tel. +49 89 2399-6037

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant's or Agent's file reference 65129AWOM1 | | s file reference | See Notification of Transmittal of International Preliminal ON Examination Report (Form PCT/IPEA/416) | | | | | |
|---|--|------------------|---|------------------------------|--|--|--|--|
| International application No. PCT/EP 03/12921 | | | tion No. International filing da 19.11.2003 | ite (day/month/year) | Priority date (day/month/year) 02.12.2002 | | | |
| | International Patent Classification (IPC) or national classification and IPC C08K5/3462 | | | | | | | |
| | Applicant CROMPTON VINYL ADDITIVES GMBH et al. | | | | | | | |
| 1. | This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. | | | | | | | |
| 2. | | | consists of a total of 4 sheets including this title | e page. | | | | |
| | This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Instruction 607 of Administrative Instructions of the PCT). These annexes consist of a total of 1 sheets. | | | | | | | |
| | | | | | | | | |
| 3. | This repo | rt cont | ains indications relating to the following items: | | | | | |
| | I ⊠ Basis of the report | | | | | | | |
| | II Priority | | | | | | | |
| | III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability | | | | | | | |
| | IV Lack of unity of invention | | | | | | | |
| | V Reasoned statement according to Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | | | |
| | VI Certain documents cited . | | | | | | | |
| | VII Certain defects in the international application | | | | | | | |
| | VIII Certain observations on the international application | | | | | | | |
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| Date of submission of the demand 17.06.2004 Date of completion of this report 04.03.2005 | | | | | | | | |
| Nan | Name and malling address of the IPEA | | | Authorized officer: | | | | |
| European Patent Office D-80298 Munich Tel. +49 89 2399 - 0, Tx: 523656 epmu d | | | pean Patent Office 198 Munich | Kositza, M Telephone No. +49 | 89 2399-7885 | | | |

JC20 Rec'd PCT/PTO 02 JUN 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/12921

| I. | Basis of the report | | | | | | | |
|----|--|--|---|-------------------------|--|--------------------|----------------|--|
| 1. | This report has been drawn up on the basis of the following elements (the replacement sheets received by the receiving office in response to an invitation according to Article 14 are considered in the present report as "originally filed" and are not annexed to the report as they contain no amendments (Rules 70.16 and 70.17).): | | | | | | | |
| | Des | cription, | pages: | | | | | |
| | 1 - 4 | 1 - 43 as originally filed | | | | | | |
| | Clai | ims, No.: | | | | | | |
| | 1 - 2 | 20 | as originally file | d | | | | |
| | 21 - | 26 | received on | 27.02.2005 | with the letter of | 17.02.2005 | | |
| 2. | | | | | ked above were availabl In was filed, unless othe | | | |
| | The | se eleme | nts were availabl | e or furnished to this | Authority in the following | g language | which is: | |
| | | the lang | uage of a transla | tion furnished for the | purposes of internation | al search (under | Rule 23.1(b)). | |
| | | the language of publication of the international application (under Rule 48.3(b)). | | | | | | |
| | | | uage of the trans Rule 55.2 and/or | | ne purposes of internation | onal preliminary e | examination | |
| 3. | | | | | sequence disclosed in ed out on the basis of th | | | |
| | | containe | d in the internation | onal application in wri | itten form. | | | |
| | filed together with the international application in computer readable form. | | | | | | | |
| | | furnished subsequently to this Authority in written form. | | | | | | |
| | | furnished | furnished subsequently to this Authority in computer readable form. | | | | | |
| | | The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. | | | | | | |
| | | | The statement that the information recorded in computer readable form is identical to the written equence listing has been furnished. | | | | | |
| 4. | The | amendm | ents have resulte | ed in the cancellation | of: | | | |
| | | ☐ the c | lescription, | pages: | | | • | |
| | | ☐ the c | laims, | Nos.: | | | | |
| | the drawings, sheets: | | | | | | | |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/12921

| 5. 🗌 | | This report has been written disregarding (some of) the amendments, which were considered as going beyond the description of the invention, as filed, as is indicated below (Rule 70.2(c)): |
|------|--|---|
| | | (All replacement sheets comprising amendments of this nature should be indicated in point 1 and attached to this report). |

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

| Novelty (N) | Yes: | Claims | 25 - 26 |
|-------------------------------|-------------|------------------|---------|
| | No: | Claims | 1 - 24 |
| Inventive Step (IS) | Yes: | Claims | 25 - 26 |
| | No: | Claims | 1 - 24 |
| Industrial Applicability (IA) | Yes: No: | Claims Claims | 1 - 26 |

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY

EXAMINATION REPORT
ADDITIONAL SHEET

International Application No. PCT/EP 03/12921

Citations

D1: EP-A-0 967 245

D2: EP-A-0 065 934

5 D3: EP-A-0 768 336

Novelty

Claims 1-24 are not new.

10 Claims 25-26 are new.

D2 describes compositions comprising monosubstituted uracils according to formula (I), methods and uses that all possess features of claims 1-24. See D2 page 3 lines 16-19 and claim (R^2 and R^3 = hydrogen), and also page 3 lines 13-27, page 8 lines 6-17.

Inventive step

25

20 Claims 25-26 involve an inventive step.

On the basis of D2 the skilled person obtains from the state of the art no indication that monosubstituted uracils according to formula ((II) are highly suitable for the color stabilization of chlorinated polymers.

Industrial applicability

The subject matter of the claims is industrially 30 applicable.

10/537331 JC20 Rec'd PCT/PTO 02 JUN 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORT - SEPARATE SHEET

International application No. PCT/EP 03/12921

Citations

D1: EP-A-0 967 245 D2: EP-A-0 065 934 D3: EP-A-0 768 336

Novelty

Claims 1 – 24 are not new. Claims 25 – 26 are new.

D2 describes compositions comprising monosubstituted uracils according to formula (I), methods and uses that all posses features of claims 1-24. See D2 page 3 lines 16-19 and claim (R² and R³ = hydrogen), and also page 3 lines 13-27, page 8 lines 6-17.

Inventive step

Claims 25 – 26 involve an inventive step.

On the basis of D2 the skilled person obtains from the state of the art no indication that monosubstituted uracils according to formula (II) are highly suitable for the color stabilization of chlorinated polymers.

Industrial applicability

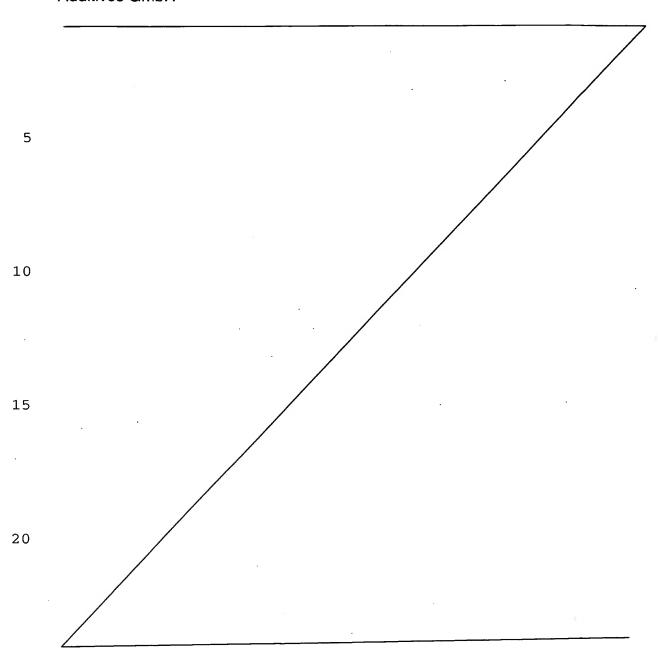
The subject matter of the claims is industrially applicable.

JC20 Rec'd PCT/PTO 02 JUN 2005 Replacement sheet

Crompton Vinyl Additives GmbH

30

- 43 -



- 25 **21.** The composition as claimed in claim **1** comprising as chlorinated polymer a recyclate containing at least one percent by weight of recycled polymer.
 - 22. A method of stabilizing chlorinated polymers, characterized in that at least one compound of the formula I as claimed in claim 1 is incorporated into the chlorinated polymer.

- 23. The use of compounds of the general formula I as claimed in claim 1 for stabilizing halogenated polymers.
- 24. The use of compounds of the general formula I as claimed in claim 1 for stabilizing recycled halogenated polymers.
- 25. Monosubstituted 6-aminouracils of the formula II

$$\begin{array}{c|c}
R^1 & O \\
N & NH_2
\end{array}$$
(II),

10

5

where

 R^1 or R^2 is C_3 - C_8 -cycloalkyl, C_4 - C_{10} -hydroxyalkyl or acetoxy/benzoyloxy- C_2 - C_{10} -alkyl and R^1 or R^2 is hydrogen.

26. Compounds as claimed in claim 25, wherein R¹ or R² is C₅- or C₆-cycloalkyl.